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## Submarines and Soil Fertility

How the War Affects the Farmer's Ability to Produce Bumper Crops.

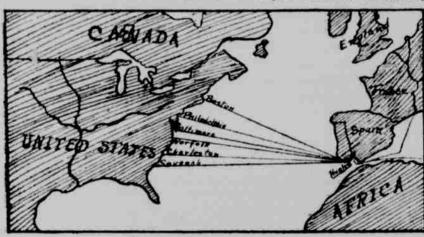
The grip of the scourge of the sens | tilizer which would usually serve ap is now, after months of warfare, felt | proximately 150,000 acres of corn, of by the American farmer. When the Lusitania went down the whole world shivered with horror-horror at the very savagery of the deed, yet few of us realized at the time that within a comparatively short time the entire world would, in one way or another, be at the mercy of these newest and most savage of all implements of war. Least of all did the American farmer realize that the submarine menace would have try there are small domestic deposits any effect whatever on his ability to raise crops and do his bit in the line of food production.

earliest day cut off supplies of potash. freight trade on these domestic pyrites Now the submarine warfare has re- is higher than that of Spanish pyrites, duced the supply of Spanish pyrites and the quality often lower. The cost from which sulphuric acid is made, of labor in mining is always higher, This sulphuric acid is used in the and the cost of handling greater. manufacture of acid phosphate, and These facts mean inevitably an inalso in the making of complete fer- crease in the cost of acid phosphate tilizers. Without it raw rock phos- and complete fertilizer. Fortunately,

wheat, or of any other cereal crop. It diminishes by this much the ability of the farmer to utilize to advantage his short supply of farm labor, to grow sufficient crops, and at the same time give up to military service the boys of the farm

Domestic Pyrites Help.

But this doesn't mean that we shall have no fertilizer. All over the counof pyrites. These can be and are being manufactured into sulphurle acid for fertilizer use and it looks as But it has! The war itself in its | though there will be enough. But the



The route followed by boats in carrying pyrites from Spain. The entrance to the Mediterranean is a favorite lurking place for submarines.

phate has but little agricultural value, | and many materials now used in ferfilizers could not be included.

Pyrites Carried at Low Rates. These Spanish pyrites are usually shipped from the port of Huelva on the southwest coast of Spain, this side of the Gibraltar Gateway. Mediterranean freighters returning from Europe take on these pyrites at very low freight rates, even almost as ballast. From Huelva the pyrites are carried to Charleston, to Savannah, to Norfolk, to Baltimore, and points north, At these places the pyrites are burned. the sulphur separated and turned into aniphuric acid. Later on, ton for ton is acid is mixed with rock phosphate and in this way the acid phosphate of commerce is produced. In other factories this acid phosphate is mixed with the blood, bone and tankage of great slaughter houses, and with other materials carrying nitrogen, for the production of the complete fertilizers on which depends the production of a

sufficient supply of food crops. Some of these Mediterranean freighters have been commandeered by the government, others have been sent down by the dreaded submarine. and still others are tied up in neutral ports all over the world.

Conditions Are Serious.

Few farmers realize the serious nature of the case. Perhaps the average boat in this trade will carry four thousand tons of pyrites. Every ton of pyrites will make in the neighborbood of four tons of acid phosphate. or up to eight tons of complete fertaken from the pyrites carrying trade means a loss of the acid for the fer-

however, this increase in cost is more than balanced by the increase in price which the farmer receives for his crop. Were this not the case, the American farmer and the American farm would indeed be in a bad way.

THE OVERSEAS ACRE FUND.

"The farmers of France are in far worse condition than perhaps you know. They have literally lost everything except their souls. After the last retreat of the German army, the entire countryside was devastated. Perhaps the liberation of enzymes acts No living thing remained, no birds, no on the stored starobes, converting them animals, no trees, no crops-nothing, into sugars, or the phenomenon may Wells were poisoned, all vestige of be due to a change in the permeability their former homes and buildings were of the cell membrane.

"Help is needed and needed quickly. Our funds will be used to buy food; clothing, farming implements, fertilance House. Every gift will be marked, Given with gratitude and good will from the farmers of America-through their Overseas Acre Fund." above statement is from a pamphlet issued by the Overseas Acre Fund, which is carrying on a campaign to help the farmers of France.

Use High-Grade Fertilizers

With fertilizers high priced and scarce this year, it is more important | Mental Disease Prevalent in Russia than ever to use high-grade rather than low-grade goods. Plant food always costs the consumer more in low-grade formulae, and now there is an added tilizer. Every four thousand ton boat | argument for high quality-less freight space is required to move a given amount of actual plant food.

# and Football Letter Winners Honor Men, and Election of George Hebert as Captain, Announced at Banquet-T. A. Robinson Honored.

Alm's M. I. A. A. Champions



Letter winners-Top row, left to right: Lott, Baribeau, Burtch, Miller, Spooner, Mills. Melvin, Smith, Captain-sleet Hebert, Richards, Captain Foote, Ardis Narrance, Coach Harry Helmer,

Hebert, quarterback of the M. I. A.

BANQUET FOR FOOTBALL

CHAMPIONS.

ter winners, twelve in number. This

announcement followed his toast.

jut the speakers' and faculty table.

etter winners last night.

### PLANTS NEED WINTER COLD \*CAPTAIN-ELECT HEBERT WHALERS AGAIN ARE ACTIVE

quired to Prepare for Another Period of Growth.

The role of winter cold in plant growth has recently been described by Dr. F. V. Coville. After the period of growth in spring and summer there is period of dormancy before cold weather sets in, and if plants are maintained artificially at a high temperature this dormant period persists. Exposure to cold is needed to activate the plant for another period of growth.

Though normally the stimulus required for a renewal of growth is supplied by cold, mechanical injury or a period of drying may have the same izer, seeds, live stock, building ma- effect. The process occurs independentterials, and other necessities as re- ly in any exposed part of a plant, so ported to us by the War Relief Clear- that if one or two branches of a plant is kept continually warm while the other is subjected to the usual winter chilling, the former will not develop on the return of summer temperatures. though the latter develops as usual. It would be interesting to learn what stimulus takes the place of cold in the equatorial regions.

#### FREEDOM CAUSE OF INSANITY

After the Revolution Is Termed "Mass Psychosis."

The Russian revolution has produced at Wright Hall Wednesday evening a mental disease which is character- Coach Harry Heimer announced the ized by Prof. P. J. Rosenbach, president of the Association of Phychiatrists, as "mass psychosis," In other words, the birth of political freedom "Material," in which he gave the menhas been driving many persons insane. great praise for their work of the

During the first month of the revolutional parties of Alma college. tion the rate of morbidity from mental | Lieutenant John M. McAuley, not come from inlinted families. He who accured commissions. committees, delegations and demons terback of the 1917 team, had been every other obstacle to the progress of strations." Similar phenomena were elected captain of the Maroon and a modern army. observed during the French revolution Cream for 1918. The announcement after the war of 1870-71, Professor was highly greeted, as Hebert is one Rosenbach observes.

Russia's Platinum Production.

1912. The decrease last year extend pacity of toastmaster.

#### worthy Revival in America in Last Few Years.

News dispatches telling of the recent capture of three sperm whales by Grays Harbor bunters serve as a reminder that the ancient industry of whaling has undergone a noteworthy revival in the last few years. It is an interesting fact that this revival has been due largely to the development of the battleship, one of the most modern creations of man.

Hundreds of whalers from American ports sailed the seas in the times before the Civil war, when whale oil was used for lighting. The discovery industry. Historic New Bedford and help to conceal the destination of the Nantucket became the bonevards of a tanks at the stage when any illusion once mighty fleet, and the race of hardy American mariners developed by whaling became almost extinct. The old romances passed into tradi-

But as ships, and particularly battleships, grew in size and number it was found that for use in certain of the bearings in their ponderous engines there was nothing that would quite take the place of "case oil," found in the head of the sperm whale, which is strangely clear and does not A. champions this year, was elected disintegrate under great pressure and cuptain for 1918 at a meeting of the heat. So whalers began to take the sea again. They are not so primitive as those of the older generation, but their eargoes are more than ever in

#### BARBED WIRE A WAR FACTOR

men in the group picture as the let. One of Peculiar Developments Is Use of American Product to Halt Armies' Progress.

The part that barbed wire has It is a mistake to assume that war season and the efforts in each game played in the war is reflected to some makes sane men mad, according to to overcome the mistakes of the pre- extent by the foreign commerce re-Professor Resenbach, who says that coding contests. He also paid a ports, says the St. Louis Giobe-Demoduring the war he has treated between glowing tribute to the Alma college crat. This is peculiarly an American 6,000 and 7,000 insane soldiers, but men now in the service of their coun- product, the Blidden invention having that in no case did he discover that try, and said that in a larger way been first utilized on a large scale by the victim's mental affliction had been they were fighting the battles of the John W. Gates at St. Louis. The decaused by war horrors or privations, causely as did these football men the scriptions from the front show the effective use made of this simple invenre- tion, which the late Senstor Ingalis. disease rose to an astonishing extent, contly commissioned at Fort Sheri, said was suggested by the manner in Professor Resembagh inquired into the day, gave an interesting toast on which the milk cows avoided bramble victims' natecedents and found, he football and the war, and said that bushes. It was weven and twisted says, that these men and women had the remjority of men in the camps into a barrier that seemed impregna-been entirely normal and that they did were athletes, and it was these men ble until the British developed the use of artillery in such amazing fashion. ascribes their sudden insunity to the | In his tonet, "Money Talke," Man. | The study of fortifications has been sudden and drastic changes in Russian ager Lioton Melvin of the champions followed from the beginning of famous political, social and intellectual life, of the M. I. A. A., made the ant history, and it is a singular fact that a One of the symptoms of "mass pay- nouncement that George | fiebert of simple fencing device, designed for an chosis," he says, is "infatuation with Detroit, a junior in college and quar- untimbered country, should surpass

Lighting Methods Improved.

of the most popular men in the col-The great development of lighting within the last ten years is made ap-Other speakers of the evening were preciable only when the results are The production of platinum in the Chaplain Fr. John Muivey, who came shown in figures. It is well-known Ural district in Russia in 1916 is esti- up from Camp Custer to attend the the introduction of the metal filament mated by a correspondent of the Lon- banquet; Miss Marion Cooper, F. W. lamps has reduced the consumpdon Mining Journal at only 78,674 Hooper, Robert Cook, former Alma tion of current for a given amount of troy owners, against 107,774 owners in grid star, back for the occasion, and light to one-half or one-third of what 1915; 156,774 ounces in 1914, 173,642 Lieutenant Lester von Thurn, former it was before, but there has been also ounces in 1913 and 175,381 ounces in college athlete, who acted in the case a great improvement in the durability of the new lamp. A French authority. ed to nearly all the districts, but was | Perhaps the finest feature of the A. Boutarie, has investigated the recmost marked on the Demidov estates evaning was the selection of a com- ords of 1,234 lamps in 26 establishand the Shuvalov placers. The short-prittee of honor consisting of Dr. ments, In 1908, only half of the metal age of labor has been one of the causes Randell and Lieutenant von Thurn, illament lamps withstood as much as of the decrease. The fact that all who went to the home of J. W. Rob- 200 hours of usage, but in 1914 not less crude platinum is now requisitioned by innon and brought to the banquet as than 96 per cent endured for that the government has led, it is believed, guest of honor. Thomas Arnold Rob-length of time, and the percentage of to the conceminent of some quantities. inson, former college athlete, who had those having a life of 1,000 hours had so that the figures given are below the returned home from France less than an hour before after six months of crude platinum is understood to be war service. The Alma college grading 30,000,000 metal filament lamps held by Russian banks, which ad- unte was warmly greeted by the yearly as the war began, the prospect vanced money to the producers before crowd which gathered for the ban-the metal was taken by the govern- quet and was given a seat of honor of peace.

#### DENVER MONKEY A HUGGER

Simian Causes Sensation When He Boldly Embraces Young Woman Passing Along Street.

The lovable monkey is loose. When he swung from the low branches of a tree at Twelfth avenue and Detroit street and threw his arms about the neck of a young woman pedestrian there was a lot of commotion, says the Denver Post. Aside from breaking the spooning laws, the monkey shouldn't have chosen broad daylight. scream from the young woman brought residents to their doors. They saw her running in one direction and the monkey in another. It was difficult for them to ascertain which was remark. "It does look runny." the more frightened-the young woman or the lovable monkey.

Patroimen from the Capitol Hill stamonk all over the Montelair district, and answers "auwk-er-uk-er-ou-o." question. The zoo keeper at Chy park later sounds the second watch of the leave home and try to hug pedes- dawning welkln ring. Residents of the Montemir district.

have joined in the hunt. A tree-totree search is being made by the posse, including an examination of the nursery at Eighth avenue and Clayton a few miles' ride of the traveler. street, where the affectionate simian temporary haven on the front porch street, but when an attempt was made

and departed suddenly. ging several trees. Just now he is bugging some secluded spot. Residents hope he is apprehended, as they do not want to be monkeyed with any more.

#### Call British Tanks "Willies."

During the summer of 1916 an enemy agent, trying to tap the wires in England might have been mystified to pick up such messages as: "Twelve Willies reach you today," or "Send talls for six females," writes Col. E. D. Swinton in the World's Work. "Willie," a pet cognomen adopted as suitable for the telephone and obviating the use of a code for telegrams, was suggested by the fact that the first experimental "Landship" completed, though equally malevolent, was smaller and less powerful for evil than its immediate successor, eventually the type adopted. When the two creatures were together they gave the ludicrous impression of being child and parent of a monstrous and evil brood. Hence, naturally, "Little Willie" and "Big Willie." The "Big Willies" were also somewhat unbiologically classified as males and females, according to their armament. Incidentally, to

England's Need.

Russian characters.

Howard E. Coffin, who is standard-Izing the American airplane, said to a

as to their purpose was precluded.

they were painted with the inscription,

"With Care. To Petrograd," in large

correspondent: "Standardization is the modern efficiency method. The Germans have standardized their submarine, England is a great country, a brave country, an unconquerable country, but England

needs standardization. "When an Englishman wants to say that a check is 'for deposit only' he doesn't write that on it. No, that isn't the English way. He writes '& Co.'

"A Cambridge professor once explained to me some of the terms used

at the great English university. "He said 'full term' means threequarters of a term. 'May week' is the first two weeks in June. 'General admission day' is the day everybody leaves. An 'ordinary degree' is one obtained by a special examination, and an 'arts inspector' is an arts students."

Long Flights of Birds. A thrush was caught at Southport recently with a ring on its leg marked, "Inform Witherby, High Holborn, London," Mr. H. E. Witherby, who is the editor of British Birds, has, since 1010, had 75,000 birds so marked in the hope of learning something about their travels. A swallow ringed in Lancashire was found seven months later at Grahamstown, South Africa. 6,000 miles away. A "lesser blackbacked guil," ringed at the Farne Islands, off Northumberland, was found eight months later at St. Louis, Senegal, and a blackbird, ringed at London, was found in Moscow a few weeks afterwards. It would seem that birds are greater travelers than most of us imagine.- Exchange.

What Women Did in Civil War.

Women all over the United States formed societies and made bandages and comforts of various kinds for the soldiers, but their work, too, lacked the direction and uniformity which are necessary for prompt and effective assistance. In the Civil war, country women were especially generous in contributing time and labor to the cause of helping the sick and wounded. In many instances the men were not given enough green food, and farmers contributed potatoes and fresh vegetables in large quantities, which frequently saved a camp from scurvy and other diseases.-Farm and Fireside,

History Repeats.

"The penalties for peaching used to be very severe."

"Yes. And we're drifting around to Chuggins, these times again. As values are going I shouldn't be surprised to see stealing a watermelon or a chicken chassed as

# **CROWING OF COCKS**

Rooster's Midnight Alarm May Be Haunt of Soldier?

Historical Events Are Quoted to Show Effects of Call at Regular Hours.

Is the crowing of the cock the haunt of soldlers?

Philosophers might ask themselves this question, fools might hesitate long. enough with a ray of intelligence to cock sounds his first shrill clarion call at twelve o'clock, midnight,

His neighboring cock from an emistion have been pursuing the lovable nent perch in an apple tree hears in Where the monkey came from is a Then he sleeps again and an hour says all his monkeys are "just where night. He sleeps some more. He they should be"; that none of them sounds the call from the barracks and would be ungentiemanly enough to his neighbors join in to make the

Through this Eastern section, where eastern and central time changes and the country is thickly settled, there is an hour difference in the time of the midnight crowing of the cock within

Since the war began in Europe and was last sighted. The monkey sought the nations engaged in that conflict set the clocks back un hour for millof G. A. Clason's home, at 945 Detroit tary reasons, it is said that the cock has adjusted his midnight crowing to to capture him he curled up his tidl suit the hour by the clock;

Beginning two weeks before Christ-In addition to the frightened woman mas the cock crows first at ten o check pedestrian, the monkey was seen hug- at night and then at the regular hours as before until after Christmas eve.

When the Roman empire claimed its outposts as the outposts of civilization, and its armies as legions, the watches of the night were sounded by the buy gle of the sentinel from his tower stationed wherever the mighty country had fald claim to domain. It was then that the crowing of the cock seems to have become connected with the soldier's call of the watches of the night, "The cock shall not thrice crow this night before you shall deny me." It is mentioned in the Bible to denote the watches of the night.

The Christmas festivities in the early days of Christianity lasted several days, beginning prior to Christmas day and the revelries of the night, in which wines flowed freely, doubtless led to a curfew call which descended to the cock as the other watch calls of the soldier's bugle.

In the present world war when the haunt of the soldier is again worldwide, it is not unlikely that it might exert an influence on the life of the domestic animal. The horse, it is claimed by scientists, can scent the battle from afar and his nature ever feels the approach of war.

Even again the time of the universal crowing of the cock might be changed by the effect of the military change of the people of the day.

Cyclist Messengers Satisfactory.

One of the difficulties that has been experienced by infantry following up retreat, has been the quick transmission of reports and the amintenance of touch with their flanking column, writes a war correspondent. In cyclist training no little time is devoted to perfecting the system of communication, and experience has proved that eyelist messengers are both a speedier and more reliable means of communication than either telephones, which have to be laid, or visual sig-

Prior to 1914, there were many who sseried that cyclists were too vulnerable to be of use. It has been proved already that they were wrong, even though the character of the war in the West has not been peculiarly favorable to cyclist operations, and that evellst battalions are and will continue to be one of the most important and valuable arms of the service.

35,000,000 Documents in One Room.

One of the most marvelous organizations in the world is found in the new buildings at Kew of the claims and record department of the ministry of labor. Here the whole work of unemployment insurance, formerly administered from various towns throughout the United Kingdom, is directed. In one room alone 35,000,000 stocuments relating to workmen's lusurnnee are housed, and even in this inbyrinth It is possible to truce the name and full particulars of any claim in two or three minutes. The efficient working of an intricate and compil-

Suggests Decoy Soldier,

over 600.

ented system is carried out almost en-

tirely by a staff of women numbering

We have heard of tin soldiers, but it has remained for J. Burgess, an officer in training at Fort Sheridan, Ill., to bring to our attention a camouflage soldier of papier mache. His plan is to place a large number of these dummy soldiers beside the regular troops on the firing line, to serve as decoys for the Germans. Unable to distinguish between the real and faked soldier, he believes the Germans will waste a great amount of ammunition on the papier mache figures. In this instance every hit will be as good as a miss .- Popular Science Monthly.

Occupation.

"I falled to reach you by telephone either at your office or at your home. Don't you work any more?"

"Of course, I work," protested Mr.

"Whereabouts?" "On a street corner or in the middle of a country road-any old place the flivver happens to quit on me."

#### Loaded -Like This AN AVERAGE CARLOAD This car carries 180 bags More than half the space wasted He can't afford to wait for other orders; shipments caught in the rush of the season may be delayed too long. Fertilizer must be delivered before planting time. When you order early, it gives your dealer or agent a chance to combine orders. He orders out his fertilizers in full capacity cars: This This car holds 600 bags

Help The Railroads.

When you order fertilizer and other

spring supplies late, your agent or

dealer orders out a minimum car:

This means—not more business for him, but better service to you. The car shortage is relieved. One full car does the work of three minimum cars. The other cars can be used for hauling farm supplies—which helps you; for the carriage of food—which helps producer and consumer alike, and for transporting munitions and war supplies—which helps the Nation. The railroads have a doubled importance in times of war. They are a vital part

ORDER CARS LOADED TO CAPACITY